

Abutment and Orthodontics for Endurance of Dental Crowns

Ramya Chowdary*

Dental Practitioner, India

*Corresponding author: Ramya Chowdary, Dental Practitioner, India

Received date: 11 December, 2021 |

Accepted date: 18 December, 2021 |

Published date: 20 December, 2021

Citation: Chowdary R. (2021) Abutment and Orthodontics for Endurance of Dental Crowns. J Dent Oral Epidemiol 1(2). doi <https://doi.org/10.54289/JDOEOp1>

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Keywords: Botulinum Toxin; Monolithic zirconia; Osseointegration; Abutment, Myofascial Pain.

Abbreviations: OSA: Obstructive sleep apnea, BT: Botulinum Toxin, SLE: Systemic Lupus Erythematosus, SHP: Split-Increment Horizontal Placement.

Opinion:

The split-increment horizontal placement (SHP) is the popular technique being used, along with other therapeutic modus operandi. As more than adequate, SHP methods are being enhanced in barricade cavities for reducing the shrinkage stress that were generated during light polymerization. Such stress, if released unrestrained, may redress within the composite, tooth or at the adhesive contact [1]. The use of Botulinum Toxin (BT) in surgeries become idiomatic, as it is effective in reducing myofascial pain and

improving its tasks over time. Thus, the the use of BT to most of the treatments reduce the potency of myofascial pain especially in adult patients [2]. Monolithic zirconia restorations have combined better esthetics and strength than other tooth-colored restorations, this zirconia offers superior robustness and endurance for the dental crowns making them attractive and expedient choice by dentists and patients (Figure-1). The tested frameworks and strategies of erbium-based lasers are out of harm's way for removing or to in adhesive the ceramic brackets [3].

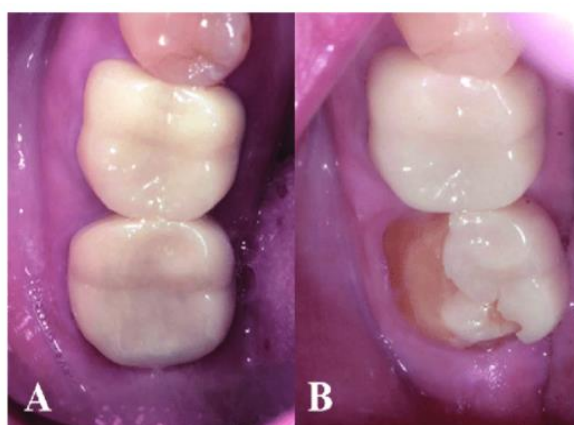


Figure 1: Monolithic zirconia teeth are more durable than the normal teeth as the enamel wears away.

Obstructive sleep apnea (OSA) is a disorder in which a person frequently stops breathing during sleep, OSA to be handled efficiently by diagnosing. [4]. OSA is treated with nasal

CPAP therapy, which is diagnosed by dentists and ENTspecialists. Any omissions during therapy effects the dental endurance. Osseointegration is defined as the direct

structural and functional connection between the living bone and surface of a load-bearing implant. It is dominant for the triumph of teeth and bone implants [5]. During studies on healing and anchorage it is evaluated that stability of titanium tooth root implants or fixtures are more durable as compared to others. The patients using non-conventional treatments to treat oral ulcer suffered side effects. [6]. Oral problems including tooth leads to dental frail. People suffered and suffering from SARS-CoV-2 are most striking novel clinical

presentation was intraoral painful blisters or mouth ulcers mostly seen on the cheek mucosa [7].

In findings, Systemic Lupus Erythematosus (SLE) patients significantly have a greater number of missing teeth (**Figure-2**). For teeth durability, it is mandatory to diagnosis, as the exact mechanism through which SLE patients experience periodontal breakdown and increased tooth loss is an avenue that warrants future research [8].



Figure 2: SLE patients also experience breakdown and increased tooth loss.

The patients who were diagnoses of SLE were also undergone for treatment and higher of the results undergone monolithic zirconia surgeries. Lots of research is going on to avoid ridge augmentation and multiple surgical procedures. Basal implants are dental implants that employ the basal cortical portion of jaws for the implant retention.

Abutment is the connector, the metal part which serves as base for the crown. This is used in the osseointegrated as a fixed bridge, for the partial removal dentures and in implant (**Figure-3**).

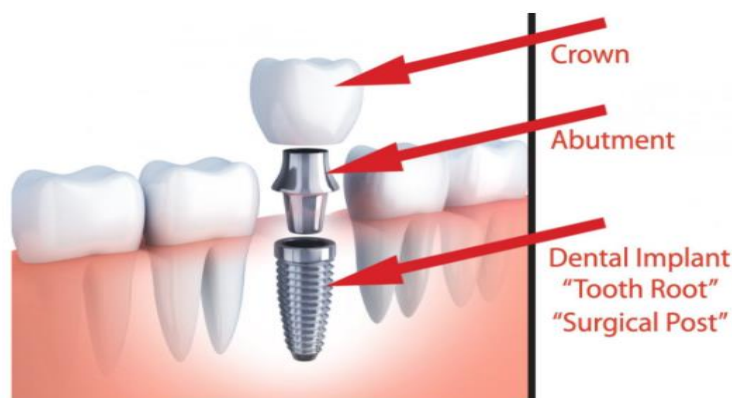


Figure 3: Abutment connecting both the crown and tooth root during implanting.

The patients with occlusal cavities undergo for osseointegration where BT used during surgeries, as the toxin plays a crucial role in reducing myofascial pain.

Conclusion:

During osseointegration, abutment plays a crucial role in connecting the crown and implant tooth root where, BT and



monolithic zirconia are pivotal during therapies and implantation for the endurance of dental and jaw.

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